

ABSTRACT OF THE DISCLOSURE

An input device for improving man-machine interface, for use in connection with a data processing system such as a computer, is disclosed. The input device provides a more direct 5 and natural relationship between the control movements of an operator and the output from the data processing system. The input device according to one embodiment of the present invention includes a fluid medium 20 sealed inside a chamber 10, a control movement transmission mechanism 50 connected to 10 the chamber 10, a control data generating device 60 which monitors and converts the operation of the inflow and outflow control mechanism into electrical signals, a transmission circuit 70 for transmitting the signals output by the control data generating device 60 to a computer 100, a fluid flow variable 15 restriction device 40 able to variably control the volume of fluid flowing through the restrictor pipe 30, and a receiver circuit 80 capable of driving the fluid flow variable restriction device 40 based on control response signals output from the computer 100. The fluid medium 20 flows into and out 20 of the chamber 10 through the restrictor pipe 30. The mechanism operates in a manner as to control the fluid flow into and out of the chamber 10 through the restrictor pipe 30. The fluid flow condition is generated by operator-induced volume changes in the chamber 10.